

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 460VAC



			10 10 10
Product designation			Power contactor
Product type designation			BF80
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	115
Operational current le			
	AC-1 (≤40°C)	Α	115
	AC-1 (≤55°C)	Α	95
	AC-1 (≤70°C)	Α	80
	AC-3 (≤440V ≤55°C)	Α	80
	AC-4 (400V)	Α	38
Rated operational current AC-3 (T≤55°C)			
	230V	Α	80
	400V	Α	80
	415V	Α	80
	440V	Α	80
	500V	Α	78
	690V	Α	57
	1000V	A	28
Rated operational power AC-1 (T≤40°C)			
	230V	kW	43
	400V	kW	76
	500V	kW	95
	690V	kW	120
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	70
	48V	Α	60
	75V	Α	60
	110V	A	8
150	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	40.43.4		400
	≤24V	A	100
	48V	A	100
	75V	A	100
	110V	A	80
IFC may current to in DC4 with L/D < 4 may with 2 males in series	220V	A	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	20 A V	Α	400
	≤24V	A	100
	48V	A	100
	75V	Α	100





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	110V	Α	85
	220V	Α	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	100
	48V	Α	100
	75V	Α	100
	110V	Α	100
	220V	Α	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	40
	48V	Α	30
	75V	Α	30
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	60
	48V	Α	50
	75V	Α	50
	110V	Α	40
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	80
	48V	Α	70
	75V	Α	70
	110V	A	60
	220V	A	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		<u> </u>
The max current to in 600-600 with E/TC = 10m3 with 4 poics in 30m63	≤24V	Α	90
	48V	A	90
	75V	A	90
	110V	A	75
	220V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	640
Protection fuse			040
Protection ruse	«C (IEC)	۸	105
	gG (IEC)	A	125
Malifer and arity (DMC value)	aM (IEC)	A	80
Making capacity (RMS value)		Α	800
Breaking capacity at voltage	4.403.4		0.40
	440V	A	640
	500V	A	625
	690V	Α	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1

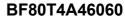


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		min	Ibin	0.8
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
Power terminal prote	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Weight			~	35mm 1240
Conductor section			g	1240
Conductor section	AVAC/komil oppdystor postice			
	AWG/kcmil conductor section			2
Operations		max		2
Mechanical life			ovoloo	15000000
Electrical life			cycles	1300000
Safety related data			cycles	1300000
•	10d according to EN/ISO 12490 1			
renormance level b	10d according to EN/ISO 13489-1	rated load	ovoloo	1300000
		mechanical load	cycles	1500000
Mirror contate accord	ling to IEC/EN 609474-4-1	mechanical load	cycles	
EMC compatibility	ling to IEC/EIN 609474-4-1			yes
AC coil operating				yes
	SOH7		V	460
Rated AC voltage at 6			V	400
AC operating voltage				
	of 60Hz coil powered at 60Hz pick-up			
	ріск-ир	min	%Us	80
		min	%Us %Us	110
	drop out	max	/₀US	110
	drop-out	min	%Us	20
			%Us %Us	55
AC average coil cons	sumption at 20°C	max	/005	JJ
A average con cons	•			
	of 60Hz coil powered at 60Hz	in-rush	VA	210
		holding	VA VA	15
Discination at halding	1 < 20°C E0∐-7	noiding	W	5
Dissipation at holding			VV	ວ
Max cycles frequency			ovelos/k	2600
Mechanical operation			cycles/h	3600
Operating times	pontrol			
Average time for Us of	CONTROL			

in AC

Closing NO



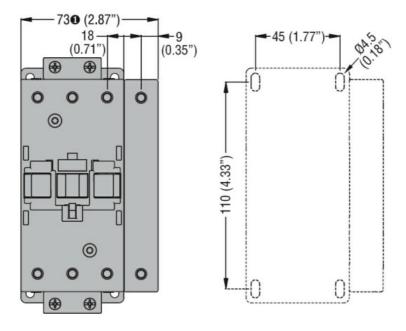


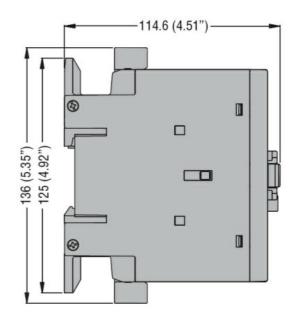
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min ms	12
max ms	28
Opening NO	-
min ms	8
max ms	22
in DC	
Closing NO	
min ms	40
max ms	85
Opening NO	
min ms	20
max ms	55
UL technical data	
Full-load current (FLA) for three-phase AC motor	
at 480V A	77
at 600V A	77
Yielded mechanical performance	
for three-phase AC motor	
200/208V HP	25
220/230V HP	30
460/480V HP	60
575/600V HP	75
General USE	73
Contactor	445
AC current A	115
Short-circuit protection fuse, 600V	
High fault	400
Short circuit current kA	100
Fuse rating A	200
Fuse class	
Standard fault	4.0
Short circuit current kA	10
Fuse rating A	200
Fuse class	RK5
Ambient conditions	
Temperature	
Operating temperature	
min °C	-50
max °C	70
Storage temperature	
min °C	-60
min °C max °C	80
min °C max °C Max altitude m	
min °C max °C Max altitude m Resistance & Protection	80 3000
min °C max °C Max altitude m	80

ENERGY AND AUTOMATION

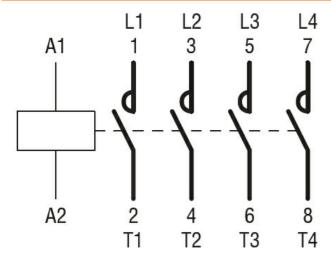
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BF80T2 82mm/3.23"

Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching